

COMPLETE LISTING OF CLAIMS, INCORPORATING AMENDMENTS
IN RESPONSE TO OFFICE ACTION DATED 18 JULY 2006
FOR SERIAL NO. 10/602,654

We claim:

1-3. (Cancelled)

4. (Currently Amended) A method to remove metals from an organic phase of a solution comprising the steps of:

a. contacting said organic phase with an aqueous solution of a stripping agent, wherein said stripping agent comprises an organic amine carbonate solution selected from the group consisting of methylamine, dimethylamine, morpholine, pyrrolidine, and pyridine;

b. recovering the amine carbonate by distillation;

c. regenerating the amine carbonate solution;

d. recycling said organic amine carbonate solution beginning with step a).

5-7. (Cancelled)

8. (Currently Amended) The method of Claim 4 wherein

a. said stripping agent is mixed with a complexant,

b. said organic phase comprises chlorinated cobalt dicarbollide, substituted polyethylene glycol, diphenyl-N,N-dibutylcarbamoyl phosphine oxide, and phenyltrifluoromethylsulfone; and

c. said organic amine carbonate solution comprises methylamine carbonate.

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9. (Currently Amended) The method of Claim 4 wherein

a. said stripping agent is mixed with a complexant,

b. said organic phase comprises chlorinated cobalt dicarbollide, substituted polyethylene glycol, and metanitrobenzotrifluoride; and

c. said organic amine carbonate solution comprises methylamine carbonate.

10. (Currently Amended) The method of Claim 4 wherein

a. said stripping agent is mixed with a complexant,

b. said organic phase comprises chlorinated cobalt dicarbollide and nitrobenzene; and

c. said organic amine carbonate solution comprises pyrrolidine carbonate.

11. (Currently Amended) The method of Claim 4 wherein

a. said stripping agent is mixed with a complexant,

b. said organic phase comprises diphenyl-N,N-dibutylcarbamoyl phosphine oxide and phenyltrifluoromethylsulfone; and

c. said organic amine carbonate solution comprises morpholine carbonate.

12. (Currently Amended) The method of Claim 4 wherein

a. said stripping agent is mixed with a complexant,

b. said organic phase comprises dodecane and at least one different-radical

phosphine oxide selected from the group consisting of trioctylphosphine oxide,

dioctylmonohexylphosphine oxide, dihexylmonooctylphosphine oxide, and trihexylphosphine oxide; and

c. said organic amine carbonate solution comprises methylamine carbonate.

13. (Currently Amended) The method of Claim 4 wherein

a. said organic phase comprises diphenyl-N,N-dibutylcarbamoyl phosphine oxide and phenyltrifluoromethylsulfone; and

b. said organic amine carbonate solution comprises methylamine carbonate.

14. (Currently Amended) The method of Claim 4 wherein

a. said organic phase comprises uranium nitrate, tributyl phosphate, and dodecane; and

b. said organic carbonate solution comprises dimethylamine carbonate.

15. (Cancelled)